



NJIS HL7 Interface Guide: How To Review & Troubleshoot Data For Web Service Providers

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I. Introduction

New Jersey Immunization Information System (NJIIIS)

The New Jersey Immunization Information System (NJIIIS), operating since 1997, is the statewide immunization information system (IIS) serving as the official repository of immunizations administered to individuals in the state of New Jersey. Containing over 2.8 million demographic and immunization records, NJIIIS is a free, confidential, population-based online system that collects and consolidates immunization information into a single record to provide an accurate immunization assessment for individuals in the state of New Jersey, as well as assists communities in assessing their immunization coverage and identifying pockets of need.

Individuals born on or after January 1, 1998, are automatically enrolled in NJIIIS through the electronic birth certificate (EBC) process. Individuals born before January 1, 1998 may enroll in NJIIIS voluntarily by completing a [NJIIIS Consent to Participate form](#)¹. Health care providers, child care centers, schools, colleges or universities, health plans, billing and practice management vendors, state or local public health and social service programs, and agencies or designated agents thereof may participate in and enroll as authorized users of NJIIIS.

New Jersey state regulation requires health care providers in the state of New Jersey who administer immunizations to children under age seven (7) to report those immunizations administered to NJIIIS within thirty (30) days of the administration date. Additional information on NJIIIS can be found on the [NJIIIS website](#)².

Please note that all NJIIIS or VFC-related inquiries must be submitted via the [NJIIIS Online Intake Form](#)³. Located under the "Contact Us" tab on the NJIIIS website, this form will provide you with links for information that can help answer your question(s) and will also route your inquiry request(s) to the appropriate NJIIIS staff for resolution.

¹ <http://www.state.nj.us/health/forms/imm-32.pdf>

² <https://njiis.nj.gov/njiis/>

³ <https://hippocrates.nj.gov/SurveyAuth?mth=openSurvey&id=14589>

NJIIS Interface Management System (IMS)

The NJIIS Interface Management System (IMS) is the system which processes the supported HL7 message types (versions [2.3.1](#)⁴ and [2.5.1](#)⁵) to enable interoperability between NJIIS and health care providers. Providers can interface with the NJIIS IMS via one (1) of the following three interface types:

- **File Upload:** A method of manually uploading batch immunization data files via the NJIIS website. Providers are responsible for logging into NJIIS and uploading immunization data within 30 days of administering the vaccines.
- **Secure File Transfer Protocol (SFTP):** An internet-accessible SFTP/SSH2 server for secure drop off and pickup of data files. NJIIS creates a secure FTP folder for the provider. Upon authentication, with a public key, the provider's SFTP client connects to a private directory.
- **Web Services:** A software system designed to support interoperable machine-to-machine interaction over a network; HL7 version 2.5.1 is the required standard for using the NJIIS HL7 web service, a bi-directional web service. Providers receive instructions on how to send files via web service.

⁴ https://njiis.nj.gov/docs/interfaces/NJIIS_intfc_specs_HL7_231.pdf

⁵ https://njiis.nj.gov/docs/interfaces/NJIIS_intfc_specs_HL7_251.pdf

Purpose of HL7 Interface 'How-To' Guide

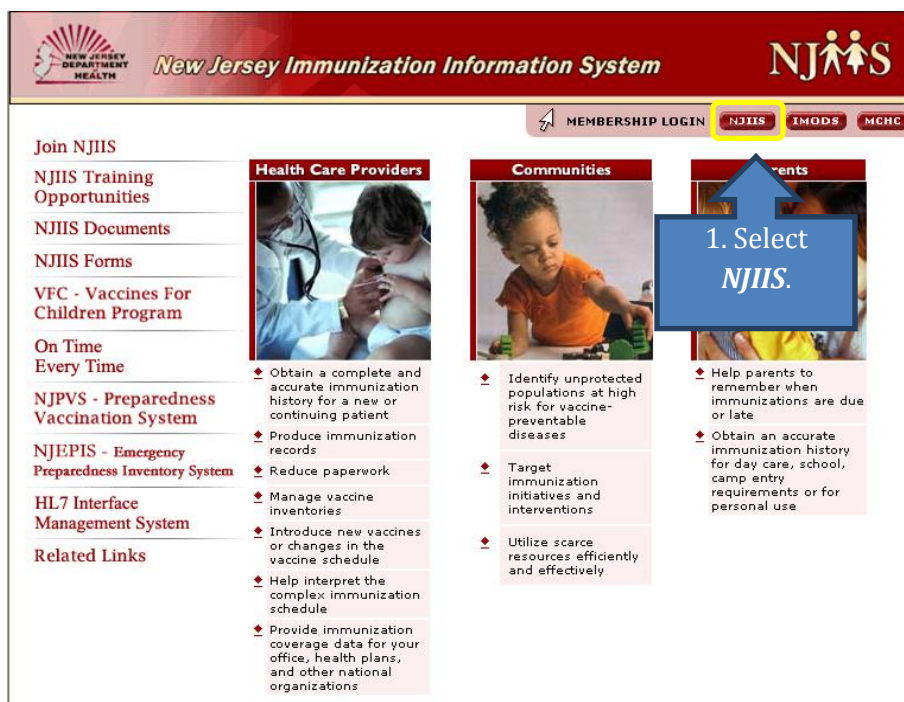
The purpose of this document is to guide you through the process of troubleshooting your immunization data. **It is the responsibility of the provider** to identify and resolve issues with immunization data submitted to NJIIS via interface, by reviewing the interface-related reports on a routine basis.

Intended Audience

This document is intended for health care providers who are currently interfacing with NJIIS via real-time data submission (**Web Service**). It is targeted to both the provider's clinical office staff, as well as, their Electronic Health Record (EHR) vendor's technical staff.

II. 'How To': Log in to NJIIS

- A. Visit the NJIIS homepage: <https://njiis.nj.gov/njiis/>. At the top of the page, select **NJIIS** from the Membership Login options.



NJIS HL7 Interface 'How-To' Guide for Web Service Providers

- B. The NJIS login screen will appear. When you receive your login credentials for the first time, your **Username** and **Password** will be the same.

New Jersey Immunization Information System

NOTE:
The NJIS recommendations are based on the current ACIP, AAP and AAP schedule for routine well child immunization. The recommended schedule of immunizations for children who are immuno-compromised or have other serious medical conditions is not included in this system.

Adobe Acrobat Reader

USERNAME

PASSWORD

LOGIN **RESET**

[Forgot Password](#)

LOGIN TO NJIMODS

BULLETIN BOARD

Important Announcements

- **04/11/2014** - **Important changes to the NJIS system are implemented in NJIS:** Improvements to the "NEW" Immunization screen and functionality to enhance the ease of reporting all required data elements for doses administered (VFC or private). [Click here](#) for detailed information and instructions.
- **04/04/2014** - Due to changes implemented by the Centers for Disease Control and Prevention, vaccines supplied by the New Jersey Vaccines for Children (NJVFC) Program will no longer be able to be accessed for individuals insured by NJ Family Care Plans B, C and D effective July 1, 2014. This change applies only to those individuals who are insured by NJ Family Care Plans B, C and D who will now have their vaccinations covered directly through the Division of Medical Assistance and Health Services. For further details about this policy change, please read the newsletter from the Department of Human Services, Division of Medical Assistance & Health Services. [Click here](#) for more information.
- **04/02/14** - NJVFC Re-enrollment is past due. If you have not re-enrolled, sign into IMODS or NJIS and click on VFC Re-enrollment.

Please note that Sanofi will be changing the packaging for ActHIB. As with any vaccine with multiple NDC's, the NDC that can be used is the one on the CDC contract, this is the number on the outer carton. [Click here](#) for more information.

- **02/04/14** - Daptacel is available in limited amounts due to being

[HOME](#) | [CDC SCHEDULE](#)

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- C. When you first log into NJIS, the Change Password screen will appear. You will be prompted to create a new password. Required fields are marked with an asterisk. After completing the fields, select **Save**. (**Note:** You will be prompted to change your password every 90 days.)

New Jersey Department of Health *New Jersey Immunization Information System* **NJIS**

Change Password

Your password has expired. Please, change your password!

User Name : NJIS_USER

*New Password :

*Confirm Password :

*Email :

*Security Question :

*Security Answer :

*Required Field

SAVE **CLEAR**

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3. Complete the required fields and select **Save**.

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- D. On the Home screen, verify that your Username is linked to the correct NJIS provider. (**Note:** You may be linked to more than one NJIS provider. Select the NJIS provider that you wish to view from the drop-down list.)

New Jersey Immunization Information System

Provider: NJIS TESTING PROVIDER
NJIS Provider Id: 325 VFC Pin: 99-998 **QUICK ASSESSMENT**

Search for Patient

Personal Info » Identifiers » Siblings » Provider » Search Preference »

Select preferred
☐ Personal Info
☐ Identifiers
☐ Guardian
☐ Siblings
☐ Provider

4. Verify that your Username is linked to the correct NJIS Provider.

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III. 'How To': Access the Interface Upload Page

- A. Web service providers do **NOT** have access to view submitted HL7 messages under the **Interface Upload** section of the left navigation menu. These providers must troubleshoot their data using the interface-related reports.

New Jersey Department of Health
New Jersey Immunization Information System
NJIS

Provider: NJIS Provider
NJIS Provider Id: 12345 VFC Pin: 99-001 QUICK ASSESSMENT

Search for Patient

Personal Info » Identifiers » Guardian » Siblings » Provider » Search Preference »

Select preferred search page:

☐ Personal Info
☐ Identifiers
☐ Siblings
☐ Provider

1. Select *Interface Upload*.

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- B. When selecting the **Upload data** link, Web Service providers will view the following message: "Web Service Provider: Please review Interface Reports."

New Jersey Immunization Information System

Provider: NJIS Provider
NJIS Provider Id: 12345 VFC Pin: 99-999 QUICK ASSESSMENT

Search for Patient

Personal Info Identifiers Guardian Siblings Provider Search Preference

Select preferred search page:
☐ Personal Info
☐ Identifiers
☐ Guardian

2. Select Upload data.

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- C. Web service providers can view and troubleshoot their data using the interface-related reports.

New Jersey Immunization Information System

Interface File Upload CLOSE X

Web Service Provider: Please review Interface Reports.

3. Note: Web service providers do NOT have access to the Interface File Upload Page.

IV. 'How To': Review the Interface File Statistics Report

Purpose of the Interface File Statistics Report

The **Interface File Statistics Report** provides a comprehensive summary of patient and dose information presented in each immunization data message. The purpose of the report is to help you identify which files contain rejected patient and/or dose information and require troubleshooting.

Viewing the Interface File Statistics Report

- A. This report can be viewed by selecting **Interface File Statistics Report** from the left navigation menu.

New Jersey Immunization Information System

Provider: NJIS TESTING PROVIDER
NJIS Provider Id: 325 VFC Pin: 99-998 **QUICK ASSESSMENT**

Search for Patient

Personal Info » Identifiers » Guardian » Siblings » Provider » Search Preference »

Select preferred search page:

☒ Personal Info
☐ Identifiers
☐ Guardian
☐ Siblings

1. Select Interface File Statistics Report.

Interface File Statistics Report

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- B. You can **Search** and **View** the Interface File Statistics Report within a six-month **Date Range**. NJIS strongly recommends that providers review the report a minimum of **one time per month** to ensure that patient and dose information has been assessed and resolved, as necessary.

The screenshot shows the 'Interface File Statistics Report' page in the New Jersey Immunization Information System. The page has a red header with the NJIS logo and a sidebar on the left with various report categories. The main content area includes a 'Provider: NJIS TESTING PROVIDER' label, a 'Select Date Range:' section with 'From' and 'To' date pickers, and a 'Report Option:' section with radio buttons for 'File Statistics' and 'VFC Dose Statistics'. Below the radio buttons are 'VIEW' and 'RESET' buttons. Three blue callout boxes with arrows indicate the steps: '2. Enter Date Range.' points to the date pickers, '3. Select File Statistics.' points to the 'File Statistics' radio button, and '4. Select View.' points to the 'VIEW' button. The footer contains links for 'Our Mission', 'Contact Us', 'VFC Contacts', 'Disclaimer Statement', and 'Messages', along with a disclaimer and copyright notice.

Interface File Statistics Report CLOSE X

Provider: NJIS TESTING PROVIDER

Select Date Range:

From: To:

Report Option:

☐ File Statistics ☐ VFC Dose Statistics

VIEW **RESET**

2. Enter Date Range.

3. Select File Statistics.

4. Select View.

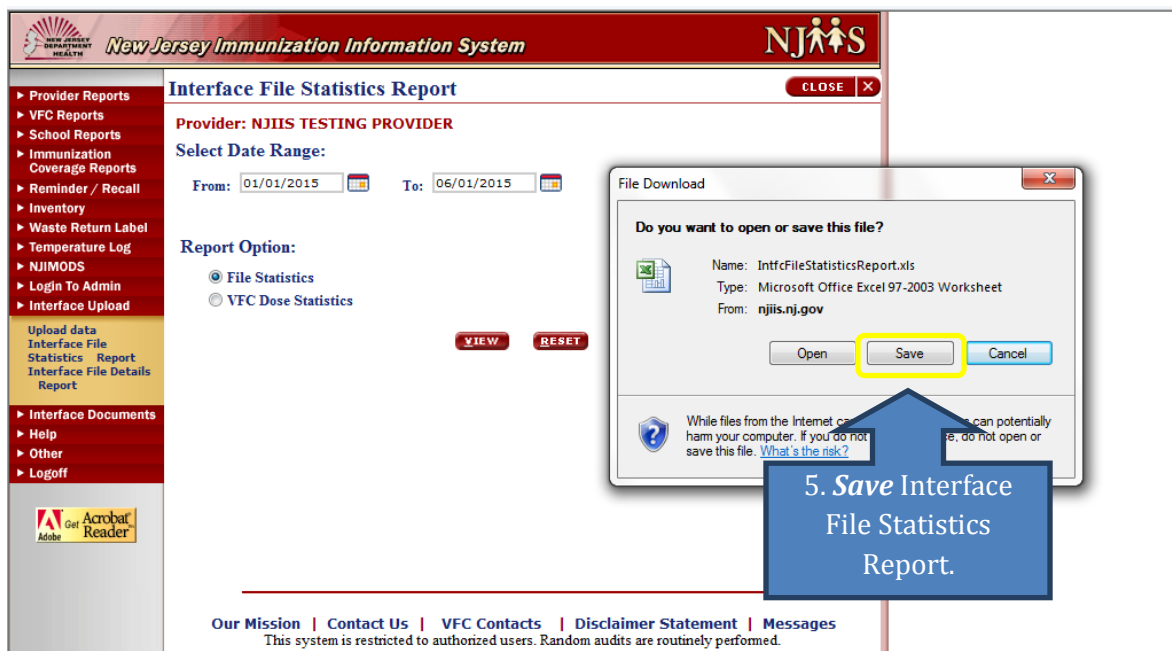
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- C. The Interface File Statistics Report will be displayed for up to six months of data. Providers are strongly encouraged to **Save** and archive their reports (beyond six months) to their local computers, if they need to be reviewed at a later date.



NJIS HL7 Interface 'How-To' Guide for Web Service Providers

Snapshot of the Interface File Statistics Report

A	B	C	D	E	F	G	H	I	J	K	L
<p style="text-align: right;"><i>New Jersey Immunization Information System</i></p> <p style="text-align: right;">Interface File Statistics Report</p> <p style="text-align: right;">Provider Name: NJIS From Date: 05/01/2015 To Date: 06/01/2015</p>											
Date Received	File Name / Message Id	Transaction Id	File Status	Date Processed	Total Records	Records Rejected	Patients Submitted	Patients Matched	Patients Multi Match - Not Added	Patients Added	Patients Not Added
05/14/2015 12:27:20	987654321	197057	Processed	05/14/2015 12:27:22	1	0	1	0	0	1	0
05/14/2015 12:43:00	987654322	197085	Processed	05/14/2015 12:43:01	1	0	1	1	0	0	0
05/14/2015 13:00:55	987654323	197116	Processed	05/14/2015 13:00:56	1	0	1	1	0	0	0
05/14/2015 14:50:54	987654324	197241	Processed	05/14/2015 14:50:56	1	0	1	1	0	0	0
05/14/2015 15:01:53	987654325	197248	Processed	05/14/2015 15:01:54	1	0	1	1	0	0	0

M	N	O	P	Q	R	S	T	U
<p><i>em</i></p> <p>./2015</p>								
Total Doses Submitted	Doses Added	Doses Not Added	Doses Updated	Doses Not Updated	Doses Deleted	Doses Not Deleted	Total VFC Doses Submitted	Total Non VFC Doses Submitted
1	1	0	0	0	0	0	1	0
1	1	0	0	0	0	0	1	0
1	1	0	0	0	0	0	1	0
1	0	0	0	1	0	0	0	1
1	0	0	0	1	0	0	0	1

Components of the Interface File Statistics Report

A. Columns **A-G** display **File Information**:

A	B	C	D	E	F	G
Date Received	File Name / Message Id	Transaction Id	File Status	Date Processed	Total Records	Records Rejected
05/14/2015 12:27:20	987654321	197057	Processed	05/14/2015 12:27:22	1	0
05/14/2015 12:43:00	987654322	197085	Processed	05/14/2015 12:43:01	1	0
05/14/2015 13:00:55	987654323	197116	Processed	05/14/2015 13:00:56	1	0
05/14/2015 14:50:54	987654324	197241	Processed	05/14/2015 14:50:56	1	0
05/14/2015 15:01:53	987654325	197248	Processed	05/14/2015 15:01:54	1	0

COLUMN	NAME	DESCRIPTION
A	Date Received	Date and time the message was received in NJIS
B	File Name/Message ID	Name of the message
C	Transaction ID	Unique number assigned by NJIS for each message received (<u>Note</u> : This ID is matched with the transaction ID number that is listed in the Details Report to resolve data discrepancies.)
D	File Status	Processing status of the message (See page 18 for file status descriptions.)
E	Date Processed	Date and time the message was processed in NJIS
F	Total Records ¹	Total number of records that were submitted in the message (defaulted to "1")
G	Records Rejected	Total number of records that were rejected in the message

¹Patient and dose information will ONLY be displayed for processed records. Records rejected (column G) will not contain any patient/dose information on this report.

File Status Descriptions

A submitted HL7 message will be assigned one of the following processing statuses:

1. **SUBMITTED**: A temporary status that is displayed when a file is initially received. Once the processing of the file has started, the status will automatically change to "Processing."
2. **PROCESSING**: A temporary status that is displayed when a file is processing. When processing is completed, the status will automatically change to "Processed."
 - **Resolution**: If the status has NOT changed, please review and re-submit the file.
3. **PROCESSED**: A permanent status that is displayed when a file has been processed successfully.
4. **ERROR**: An error status that is displayed when a file is not processed for reasons such as an incomplete file, invalid messages, or failed authorization.
 - **Resolution**: Please review and re-submit the file.
5. **VERSION ERROR**: An error status that is displayed when a file is submitted in an unsupported HL7 message version. (**Note**: NJIIS currently only supports HL7 versions 2.3.1 and 2.5.1.)
 - **Resolution**: Please review and re-submit the file in the correct HL7 version.
6. **INTERNAL ERROR**: An error status that is displayed when the processing of a file is aborted due to an internal error.
 - **Resolution**: Please submit an inquiry to NJIIS via the Online Intake Form: <https://hippocrates.nj.gov/SurveyAuth?mth=openSurvey&id=14589>.

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B. Columns **H-L** display *Patient Information*:

H	I	J	K	L
New Jersey Immunization Information System Interface File Statistics Report Provider Name: NJIIS From Date: 05/01/2015 To Date: 06/01/2015				
Patients Submitted	Patients Matched	Patients Multi Match - Not Added	Patients Added	Patients Not Added
1	0	0	1	0
1	1	0	0	0
1	1	0	0	0
1	1	0	0	0
1	1	0	0	0

COLUMN	NAME	DESCRIPTION
H	Patients Submitted ¹	Total number of patients that were submitted in the message (defaulted to "1")
I	Patients Matched	Total number of patients in the message that were found and matched in NJIIS
J	Patients Multi Match – Not Added	Total number of patients in the message that had multiple possible matches in NJIIS; these patients were not added in NJIIS
K	Patients Added	Total number of patients in the message that were not found but were added as new patients in NJIIS
L	Patients Not Added	Total number of patients in the message that were not found or added in NJIIS

¹Column H = Column I + Column J + Column K + Column L

NJIIS HL7 Interface 'How-To' Guide for Web Service Providers

- C. Columns **M-U** display **Total Dose Information** (**Note:** These totals include VFC doses, if applicable.):

M	N	O	P	Q	R	S	T	U
2015								
Total Doses Submitted	Doses Added	Doses Not Added	Doses Updated	Doses Not Updated	Doses Deleted	Doses Not Deleted	Total VFC Doses Submitted	Total Non VFC Doses Submitted
1	1	0	0	0	0	0	1	0
1	1	0	0	0	0	0	1	0
1	1	0	0	0	0	0	1	0
1	0	0	0	1	0	0	0	1
1	0	0	0	1	0	0	0	1

COLUMN	NAME	DESCRIPTION
M	Total Doses Submitted ^{1,2}	Total number of doses that were submitted in the message
N	Doses Added	Total number of doses in the message that were added in NJIIS
O	Doses Not Added	Total number of doses in the message that were not added in NJIIS
P	Doses Updated	Total number of doses in the message that were updated in NJIIS
Q	Doses Not Updated	Total number of doses in the message that were not updated in NJIIS
R	Doses Deleted	Total number of doses in the message that were deleted from NJIIS
S	Doses Not Deleted	Total number of doses in the message that were not deleted from NJIIS
T	Total VFC Doses Submitted	Total number of VFC doses that were submitted in the message
U	Total Non-VFC Doses Submitted	Total number of non-VFC doses that were submitted in the message

¹Column M = Column N + Column O + Column P + Column Q + Column R + Column S

²Column M = Column T + Column U

V. 'How To': Review the VFC Dose Statistics Report

Purpose of the VFC Dose Statistics Report

The **VFC Dose Statistics Report** provides a comprehensive summary of Vaccines for Children (VFC) dose information presented in each immunization data message. The purpose of the report is to help you identify which messages contain rejected VFC dose information and require troubleshooting.

Viewing the VFC Dose Statistics Report

- A. This report can be viewed by selecting **Interface File Statistics Report** from the left navigation menu.

New Jersey Immunization Information System

Provider: NJHIS TESTING PROVIDER
NJHIS Provider Id: 325 VFC Pin: 99-998 **QUICK ASSESSMENT**

Search for Patient

Personal Info » Identifiers » Guardian » Siblings » Provider » Search Preference »

Select preferred search page:

☐ Personal Info
☐ Identifiers
☐ Guardian
☐ Siblings

1. Select Interface File Statistics Report.

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- B. You can **Search** and **View** the VFC Dose Statistics Report within a six-month **Date Range**. NJIS strongly recommends that providers review the report a **minimum** of **one time per month** to ensure that patient and dose information has been assessed and resolved, as necessary.

The screenshot shows the 'Interface File Statistics Report' page in the NJIS system. The page has a red header with the NJIS logo and a sidebar on the left with various menu items. The main content area contains a form for selecting a date range and report options. Four blue callout boxes with arrows point to specific elements: '2. Enter Date Range.' points to the 'From' and 'To' date fields; '3. Select VFC Dose Statistics.' points to the 'VFC Dose Statistics' radio button; '4. Select View.' points to the 'VIEW' button; and '3. Select VFC Dose Statistics.' also points to the 'VFC Dose Statistics' radio button.

New Jersey Immunization Information System

Interface File Statistics Report [CLOSE X]

Provider: **NJIS TESTING PROVIDER**

Select Date Range:

From: [] To: []

Report Option:

☐ File Statistics

☐ VFC Dose Statistics

[VIEW] [RESET]

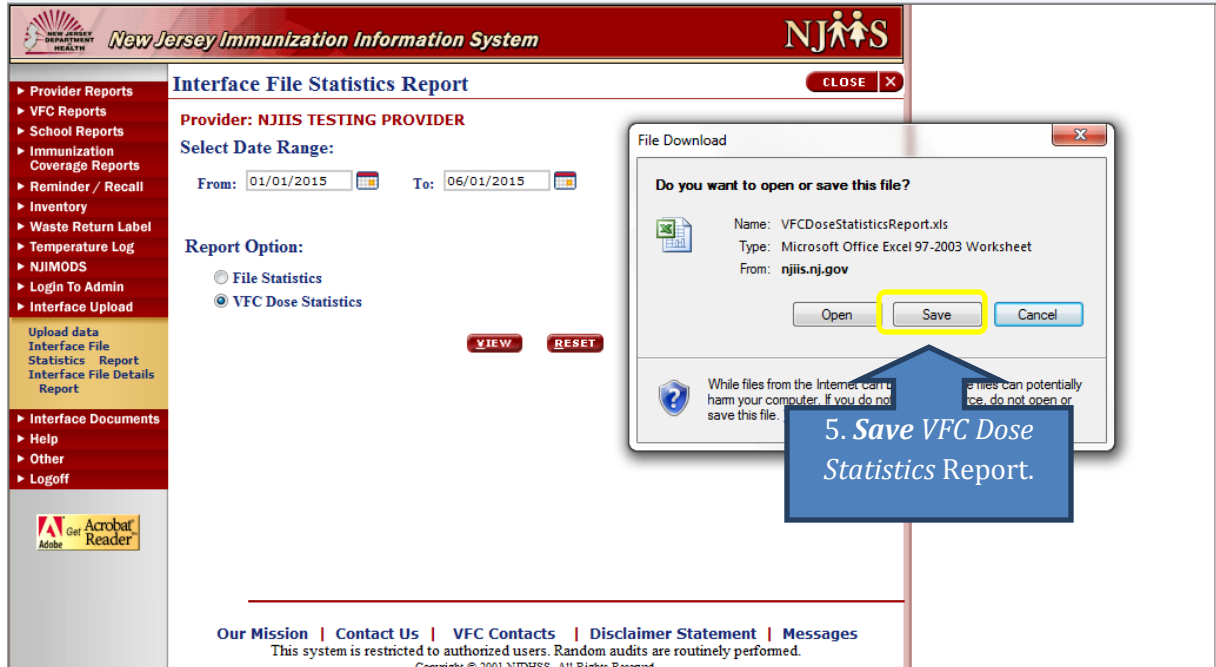
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- C. The VFC Dose Statistics Report will be displayed for up to six months of data. Providers are strongly encouraged to **Save** their reports (beyond six months) to their local computers, if they need to be reviewed at a later date.



NJHIS HL7 Interface 'How-To' Guide for Web Service Providers

Snapshot of the VFC Dose Statistics Report

A	B	C	D	E	F	G	H	I	J	K	L
New Jersey											
Provider Name:											
Date Received	File Name / Message Id	Transaction Id	File Status	Date Processed	Total Records	Records Rejected	Patients Submitted	Patients Matched	Patients Multi Match - Not Added	Patients Added	Patients Not Added
05/14/2015 12:27:20	987654321	197057	Processed	05/14/2015 12:27:22	1	0	1	0	0	1	0
05/14/2015 12:43:00	987654322	197085	Processed	05/14/2015 12:43:01	1	0	1	1	0	0	0
05/14/2015 13:00:55	987654323	197116	Processed	05/14/2015 13:00:56	1	0	1	1	0	0	0

M	N	O	P	Q	R	S
Key Immunization Information System						
VFC Dose Statistics Report						
e: NJHIS From Date: 05/01/2015 To Date: 06/01/2015						
Total VFC Doses Submitted	VFC Doses Not Added	VFC Doses Added	VFC Doses Added with Inventory Match	VFC Doses Updated	VFC Doses Updated with Inventory Match	VFC Doses Not Updated
1	0	1	1	0	0	0
1	0	1	1	0	0	0
1	0	0	0	1	1	0

T	U	V
VFC Doses Deleted	VFC Doses Deleted with Inventory Match	VFC Doses Not Deleted
0	0	0
0	0	0
0	0	0

Components of the VFC Dose Statistics Report

A. Columns **A-G** display **File Information**:

A	B	C	D	E	F	G
Date Received	File Name / Message Id	Transaction Id	File Status	Date Processed	Total Records	Records Rejected
05/14/2015 12:27:20	987654321	197057	Processed	05/14/2015 12:27:22	1	0
05/14/2015 12:43:00	987654322	197085	Processed	05/14/2015 12:43:01	1	0
05/14/2015 13:00:55	987654323	197116	Processed	05/14/2015 13:00:56	1	0

COLUMN	NAME	DESCRIPTION
A	Date Received	Date and time the message was received in NJIIS
B	File Name/Message ID	Name of the message
C	Transaction ID	Unique number assigned by NJIIS for each message received (<u>Note</u> : This ID is matched with the transaction ID number that is listed in the Details Report to resolve data discrepancies.)
D	File Status	Processing status of the message (See page 18 for file status descriptions.)
E	Date Processed	Date and time the message was processed in NJIIS
F	Total Records ¹	Total number of records that were submitted in the message (defaulted to "1")
G	Records Rejected	Total number of records that were rejected in the message

¹Patient and dose information will ONLY be displayed for processed records. Records rejected (column G) will not contain any patient/dose information on this report.

NJIS HL7 Interface 'How-To' Guide for Web Service Providers

B. Columns **H-L** display *Patient Information*:

H	I	J	K	L
New Jersey				
Provider Name:				
Patients Submitted	Patients Matched	Patients Multi Match - Not Added	Patients Added	Patients Not Added
1	0	0	1	0
1	1	0	0	0
1	1	0	0	0

COLUMN	NAME	DESCRIPTION
H	Patients Submitted ¹	Total number of patients that were submitted in the message (defaulted to "1")
I	Patients Matched	Total number of patients in the message that were found and matched in NJIS
J	Patients Multi Match – Not Added	Total number of patients in the message that had multiple possible matches in NJIS; these patients were not added in NJIS
K	Patients Added	Total number of patients in the message that were not found but were added as new patients in NJIS
L	Patients Not Added	Total number of patients in the message that were not found or added in NJIS

¹Column H = Column I + Column J + Column K + Column L

NJIIS HL7 Interface 'How-To' Guide for Web Service Providers

C. Columns **M-V** display **VFC Dose Information**:

M	N	O	P	Q	R	S	T	U	V
NJIIS Immunization Information System VFC Dose Statistics Report NJIIS From Date: 05/01/2015 To Date: 06/01/2015									
Total VFC Doses Submitted	VFC Doses Not Added	VFC Doses Added	VFC Doses Added with Inventory Match	VFC Doses Updated	VFC Doses Updated with Inventory Match	VFC Doses Not Updated	VFC Doses Deleted	VFC Doses Deleted with Inventory Match	VFC Doses Not Deleted
1	0	1	1	0	0	0	0	0	0
1	0	1	1	0	0	0	0	0	0
1	0	0	0	1	1	0	0	0	0

COLUMN	NAME	DESCRIPTION
M	Total VFC Doses Submitted ¹	Total number of VFC doses that were submitted in the message
N	VFC Doses Not Added	Total number of VFC doses in the message that were not added in NJIIS
O	VFC Doses Added	Total number of VFC doses in the message that were added in NJIIS
P	VFC Doses Added with Inventory Match	Total number of doses in the message that were added and matched VFC inventory in NJIIS
Q	VFC Doses Updated	Total number of VFC doses in the message that were updated in NJIIS
R	VFC Doses Updated with Inventory Match	Total number of doses in the message that were updated and matched VFC inventory in NJIIS
S	VFC Doses Not Updated	Total number of VFC doses in the message that were not updated in NJIIS
T	VFC Doses Deleted	Total number of VFC doses in the message that were deleted from NJIIS
U	VFC Doses Deleted with Inventory Match	Total number of doses in the message that were deleted and matched VFC inventory in NJIIS
V	VFC Doses Not Deleted	Total number of VFC doses in the message that were not deleted from NJIIS

¹Column M = Column N + Column O + Column Q + Column S + Column T + Column V

VI. 'How To': Review the Interface File Details Report

Purpose of the Interface File Details Report

The **Interface File Details Report** provides detailed information that allows providers to further troubleshoot specific issues with their messages. The purpose of the report is to help you identify and understand the reason a patient and/or dose in a particular message was rejected in NJIIS. The Interface File Details Report should be used in conjunction with the Interface File Statistics Report to troubleshoot specific issues.

Viewing the Interface File Details Report

- A. This report can be viewed by selecting **Interface File Details Report** from the left navigation menu.

New Jersey Immunization Information System

Provider: NJIIS TESTING PROVIDER
NJIS Provider Id: 325 **VFC Pin:** 99-998 **QUICK ASSESSMENT**

Search for Patient

Personal Info » Identifiers » Guardian » Siblings » Provider » Search Preference »

Select preferred search page:

☐ Personal Info
☐ Identifiers
☐ Guardian
☐ Siblings
☐ Provider

SAVE RESET

1. Select Interface File Details Report.

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- B. You can **Search** and **View** the Interface File Details Report within a six-month **Date Range**. NJIS strongly recommends that providers review the report a minimum of **one time per month** to ensure that patient and dose information has been assessed and resolved, as necessary.

New Jersey Immunization Information System

Interface File Details Report CLOSE X

Provider: **NJIS TESTING PROVIDER**

Select Date Range:

From: To:

VIEW **RESET**

2. Enter Date Range.

3. Select View.

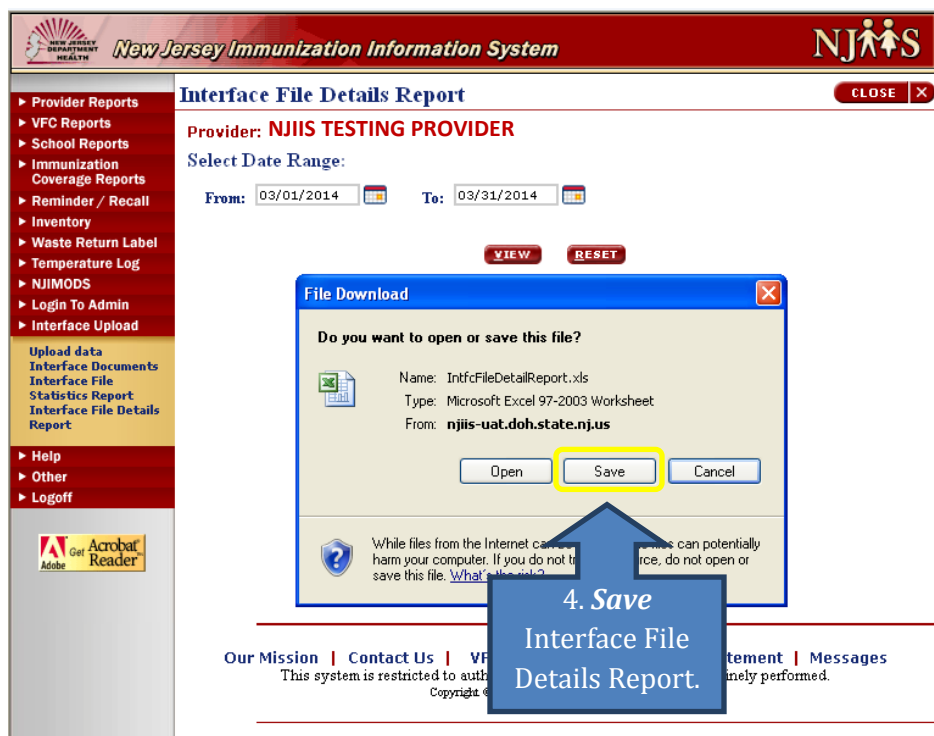
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This system is restricted to authorized users. Random audits are routinely performed.

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- C. The Interface File Details Report will be displayed for up to six months of data. Providers are strongly encouraged to **Save** and archive their reports (beyond six months) to their local computers, if they need to be reviewed at a later date.



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Snapshot of the Interface File Details Report

A	B	C	D	E	F	G	H	I	J	K	L	M	N
New Jersey Immunization Information System Interface File Details Report Provider Name: NJIS From Date: 05/01/2015													
Provider Id	Transaction Id	Message Id	Registry Id	Internal Id	Patient Status	Patient Comments	Last Name	First Name	Date Of Birth	Gender	CVX Code	Vaccine ID	Lot Number
316	192178	242419210	3280526	107411	Matched		DUCK	DONALD	06/05/2014	M	120	DTaP/HPV/IB unspc	C4742AA
414	197057	987654321	3305113	12345	Unmatched - New Record Created		SUMMERS	DONNA	05/14/2001	F	118	HPV2	1234AB
414	197116	987654323	3305095	678910	Matched		JACKSON	MICHAEL	05/14/2015	M	163	MenB OMV	1234AB

O	P	Q	R	S	T	U	V	W
Immunization System Report To Date: 06/01/2015								
Expiration Date	Manufacturer	Matched Inventory	Dose Given Date	VFC Eligibility	Dose Status	Dose Comments	File Name	Date Received
05/31/2016	PMC	N	04/02/2015	Not Eligible	Not Updated	NO CHANGES FOR UPDATE	N/A	2015-05-07 12:43:39
12/30/2016	MSD	Y	05/14/2015	Medicaid, Medicaid Managed Care, and NJ FamilyCare Plan A	Added	Vaccine Id/Lot#/Mfr :HPV2/1234AB/MSD; EXECUTION COMPLETED SUCCESSFULLY. Matching inventory record	N/A	2015-05-14 12:27:21
12/30/2016	MSD	Y	05/14/2015	Medicaid, Medicaid Managed Care, and NJ FamilyCare Plan A	Added	Vaccine Id/Lot#/Mfr :MenB OMV/1234AB/MSD; EXECUTION COMPLETED SUCCESSFULLY. Matching inventory record	N/A	2015-05-14 13:00:55

Components of the Interface File Details Report

A. Columns A-C and V-W display **File Information**:

A	B	C
Provider Id	Transaction Id	Message Id
316	192178	242419210
414	197057	987654321
414	197116	987654323

V	W
File Name	Date Received
N/A	2015-05-07 12:43:39
N/A	2015-05-14 12:27:21
N/A	2015-05-14 13:00:55

COLUMN	NAME	DESCRIPTION
A	Provider ID	Unique number assigned to NJiIS Provider
B	Transaction ID	Unique number assigned by NJiIS for each message received (<u>Note:</u> This ID is matched with the transaction ID number that is listed in the File/VFC Dose Statistics Reports to resolve data discrepancies.)
C	Message ID	Unique number generated from a provider's EMR that identifies each HL7 message that was sent to NJiIS via interface
Q	File Name	Name of the message (defaulted to "N/A")
R	Date Received	Date and time the message was received in NJiIS

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B. Columns **D-K** display *Patient Information*:

D	E	F	G	H	I	J	K
Registry Id	Internal Id	Patient Status	Patient Comments	Last Name	First Name	Date Of Birth	Gender
3280526	107411	Matched		DUCK	DONALD	06/05/2014	M
3305113	12345	Unmatched - New Record Created		SUMMERS	DONNA	05/14/2001	F
3305095	678910	Matched		JACKSON	MICHAEL	05/14/2015	M

COLUMN	NAME	DESCRIPTION
D	Registry ID	Unique state registry number assigned to a patient in NJIS
E	Internal ID	Patient medical record number generated from a provider's EMR and sent to NJIS via interface
F	Patient Status	Status of patient (See Table 1 for patient status descriptions.)
G	Patient Comments	Status message of patient (See Table 1 for patient comment descriptions.)
H	Last Name	Patient's last name
I	First Name	Patient's first name
J	Date of Birth	Patient's date of birth
K	Gender	Patient's gender

Table 1. Patient Level Status

PATIENT LEVEL STATUS	STATUS MESSAGE	DESCRIPTION
Matched	----	Patient was found in NJIIS.
Multi Match	Multiple possible matches	Duplicate patients were found in NJIIS.
Unmatched - New Record Created	----	New patient was added in NJIIS.
Unmatched - New Record Not Created	No consent	Required NJIIS consent is missing for patients born before 01/01/1998.
	Patient/parent-guardian declined participation	NJIIS consent is negative/opted out for patient born before 01/01/1998.
	No/invalid vaccination data	Patient is missing valid vaccination information.
Error	Invalid registry ID	Given NJIIS registry ID is invalid, unable to match patient in NJIIS.
	No/invalid address data	Patient is missing valid address information.
	DOB, gender, last, first name match failed	Unable to match patient's date of birth, gender, and last and first name in NJIIS.
Internal Error	Internal error	An internal error occurred while processing, and the patient record was ignored by NJIIS. Contact NJIIS for further assistance.

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C. Columns L-U display *Dose Information*:

L	M	N	O	P	Q	R	S	T	U
New Jersey Immunization Information System Interface File Detail Report Provider Name: NJIS From Date: 05/01/2015 To Date: 06/01/2015									
CVX Code	Vaccine ID	Lot Number	Expiration Date	Manufacturer	Matched Inventory	Dose Given Date	VFC Eligibility	Dose Status	Dose Comments
120	DTaP/IPv/Hib unspc	C4742AA	05/31/2016	Pfizer	N	04/02/2015	Not Eligible	Not Updated	NO CHANGES FOR UPDATE
118	HPV2	1234AB	12/30/2016	MSD	Y	05/14/2015	Medicaid, Medicaid Managed Care, and NU FamilyCare Plan A	Added	Vaccine ID#Lot#Mfr: HPV2/1234AB/MSD, EXECUTION COMPLETED SUCCESSFULLY. Matching inventory record
163	MenB OMV	1234AB	12/30/2016	MSD	Y	05/14/2015	Medicaid, Medicaid Managed Care, and NU FamilyCare Plan A	Added	Vaccine ID#Lot#Mfr: MenB OMV/1234AB/MSD, EXECUTION COMPLETED SUCCESSFULLY. Matching inventory record

COLUMN	NAME	DESCRIPTION
L	CVX Code	Unique code used to identify the administered vaccine (HL7 equivalent of the CPT code)
M	Vaccine ID	Name of the administered vaccine
N	Lot Number	Lot number associated with administered vaccine
O	Expiration Date	Date of expiration for lot associated with administered vaccine
P	Manufacturer	Manufacturer code of lot associated with administered vaccine
Q	Matched Inventory	Administered vaccine matched inventory in NJIS (Y/N values)
R	Dose Given Date	Date vaccine was administered to each patient
S	VFC Eligibility	Dose-level VFC eligibility status for each patient
T	Dose Status	Status of dose (See Table 2 for dose status descriptions.)
U	Dose Comments	Status message of dose (See Table 2 for dose comment descriptions.)

Table 2. Dose Level Status

DOSE LEVEL STATUS	STATUS MESSAGE	DESCRIPTION
Added	----	Dose was added in NJIS.
Not Added	Invalid vaccine ID	Vaccine ID/CVX code is not supported by NJIS.
	Invalid vaccine date	Date of vaccine administration is null, in the wrong date format, before the patient's DOB, or in a future date.
	Invalid lot number	Vaccine lot number is missing or in an invalid format.
	Invalid admin provider ID	The administered vaccine is linked with an invalid NJIS provider ID.
	Invalid data	The dose is invalid, and the dose record was ignored by NJIS.
	Patient not added	The dose was not added into NJIS due to no/revoked patient consent, multiple possible patient matches, or invalid patient demographic information.
Deleted	----	Dose was matched and deleted in NJIS.
Not Deleted	No match	No matching dose was found in NJIS to be deleted.
	Not authorized to delete other provider dose	Provider cannot update another provider's doses.
Updated	----	Dose was matched and updated in NJIS.
Not Updated	No changes for update	Patient's dose was matched in NJIS and has no changes to update in NJIS.

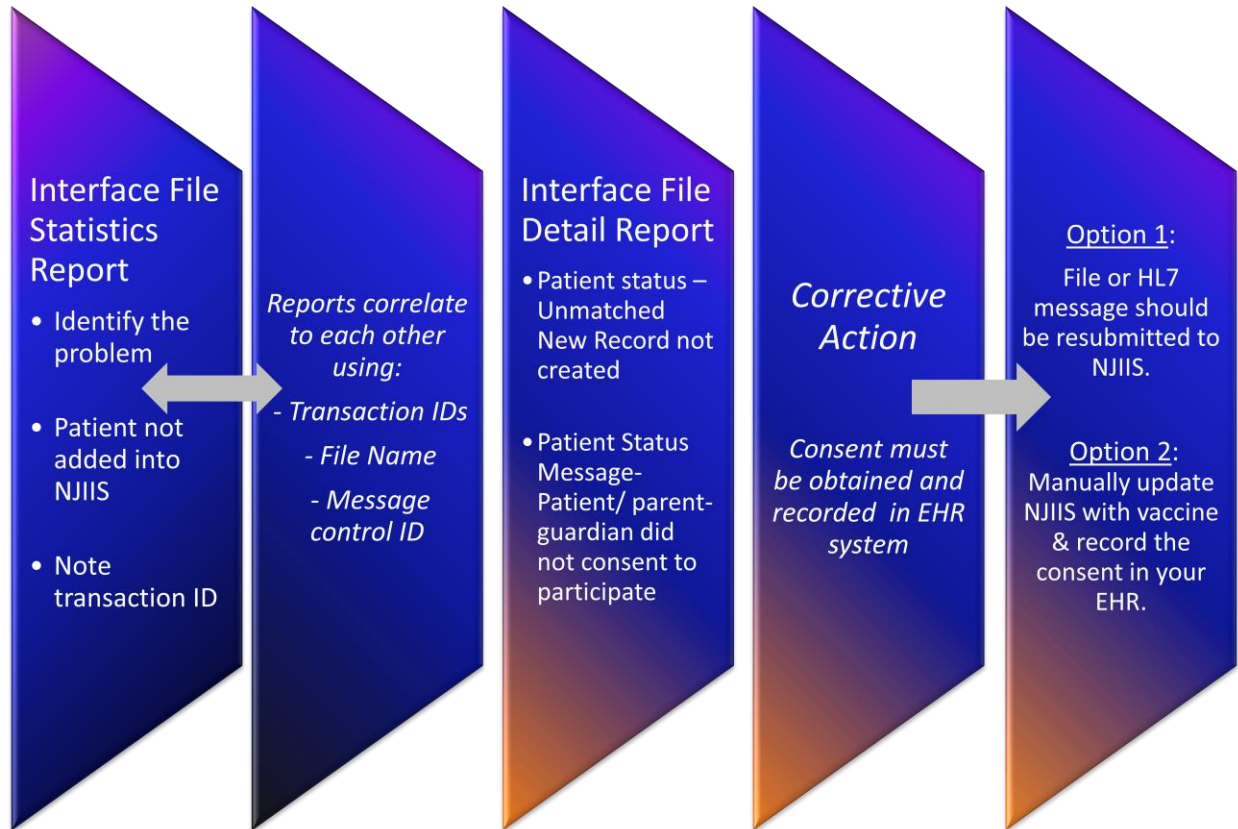
NJIS HL7 Interface 'How-To' Guide for Web Service Providers

	Not authorized to update other provider dose	Provider cannot update another provider's doses.
	History dose cannot be updated with a history dose	A historical dose cannot be updated with another historical dose.
	Provider dose cannot be updated with history dose	A vaccine administered on the same date by the same provider already exists in NJIS, so NJIS marks this historical dose as duplicate. The duplicate dose will not be added in NJIS.
	Duplicate in file	If the same vaccine appears multiple times in a single HL7 message, NJIS marks the subsequent doses as duplicate. The duplicate doses will not be added in NJIS.
	Duplicate within 5 days	The same vaccine already exists in NJIS with a date that is within +/- 5 days from the date of administration, so NJIS marks this dose as duplicate. The duplicate dose will not be added in NJIS.
	Duplicate with same vaccine series	A vaccine administered on the same date from the same vaccine series already exists in NJIS, so NJIS marks this dose as duplicate. The duplicate dose will not be added in NJIS.
	Duplicate with same vaccine series – combo/non-combo match	A vaccine administered on the same date from the same vaccine series and possible combo vaccine match already exists in NJIS, so NJIS marks this dose as duplicate. The duplicate dose will not be added in NJIS.
Internal Error	Internal error	An internal error occurred while processing, and the dose record was ignored by NJIS. Contact NJIS for assistance.

VII. 'How To': Troubleshoot Common Scenarios

Scenario 1: Patient Not Added into NJIIS

Reason: Patient consent was NOT obtained.



➤ **Identify the Problem:**

1. Review the **Interface File Statistics Report**.
 - a. *Column H* ("Patients Submitted") indicates that total number of patients submitted in the file (Note: For web service providers, this number will be valued as "1").
 - b. *Column L* ("Patients Not Added") indicates that the number of patients that were NOT added into NJIIS.
 - c. To get more detailed information about these patient(s), please note the File Name/Message ID in *column B* and transaction ID for the message in *column C*.
2. Review the **Interface File Details Report**.
 - a. From the Interface File Statistics Report, identify the patient by noting the corresponding Transaction ID in *column B* or Message ID in *column C* found on the Interface File Details Report.
 - b. In *column F* (Patient Status), the following status will appear: "Unmatched New Record Not Created".
 - c. In *column G* (Patient Comments), there will be one of the following status messages: "No consent" or "Patient/parent-guardian declined participation". (Note: Review Table 1 (Patient Level Status) for a description of each status message.)

➤ **Identify Corrective Action(s):**

Option 1:

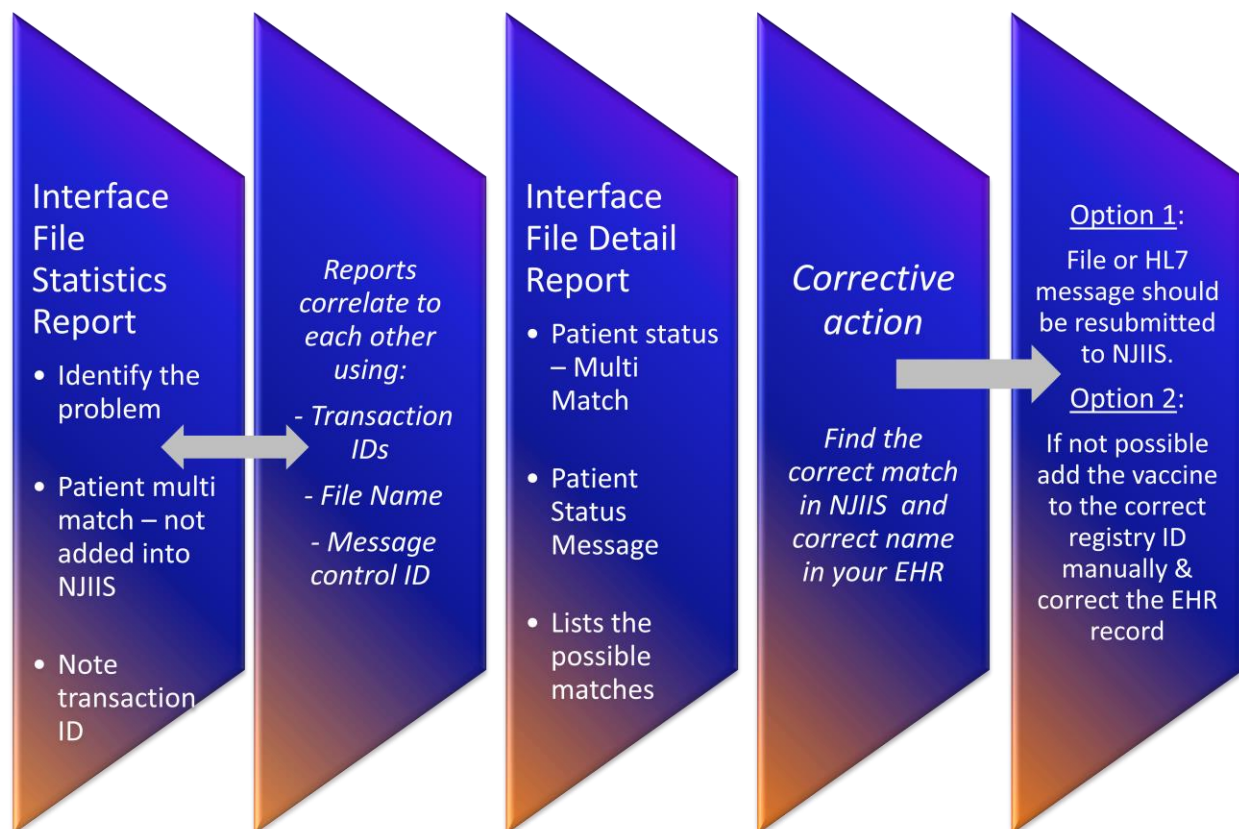
1. For patients born before 01/01/1998, the NJIIS Consent to Participate Form (IMM-32) must be completed by the patient (or guardian) and obtained at the provider's office.
2. Patient consent must also be documented appropriately in the provider's EHR system and transmitted correctly in the HL7 message.
3. The HL7 file or message should then be re-submitted via interface as an "Update" to NJIIS.

Option 2:

1. Manually update the patient's immunization record in NJIIS with the administered vaccine.
2. Document that patient consent was obtained in the provider's EHR, so that future administered immunizations are recorded correctly in NJIIS.

Scenario 2: Patient Not Added into NJIIS

Reason: Multiple possible patient record matches were found in NJIIS.



➤ **Identify the Problem:**

1. Review the **Interface File Statistics Report**.
 - a. *Column H* ("Patients Submitted") indicates that total number of patients submitted in the file (Note: For web service providers, this number will be valued as "1").
 - b. *Column J* ("Patients Multi-Match – Not Added") indicates the number of patients that had multiple possible matches in NJIS; as a result, these patients were NOT added into NJIS.
 - c. To get more detailed information about this patient, please note the File Name/Message ID in *column B* and transaction ID for the message in *column C*.
2. Review the **Interface File Details Report**.
 - a. From the Interface File Statistics Report, identify the patient by noting the corresponding Transaction ID in *column B* or Message ID in *column C* found on the Interface File Details Report.
 - b. In *column F* (Patient Status), the following status will appear: "Multi Match".
 - c. In *column G* (Patient Comments), the following status message will appear: "Multiple Possible Matches". The comment will also include the names, DOBs, and Registry IDs of all possible patient matches found. (Note: Review Table 1 (Patient Level Status) for a description of each status message.)

➤ **Identify Corrective Action(s):**

Option 1:

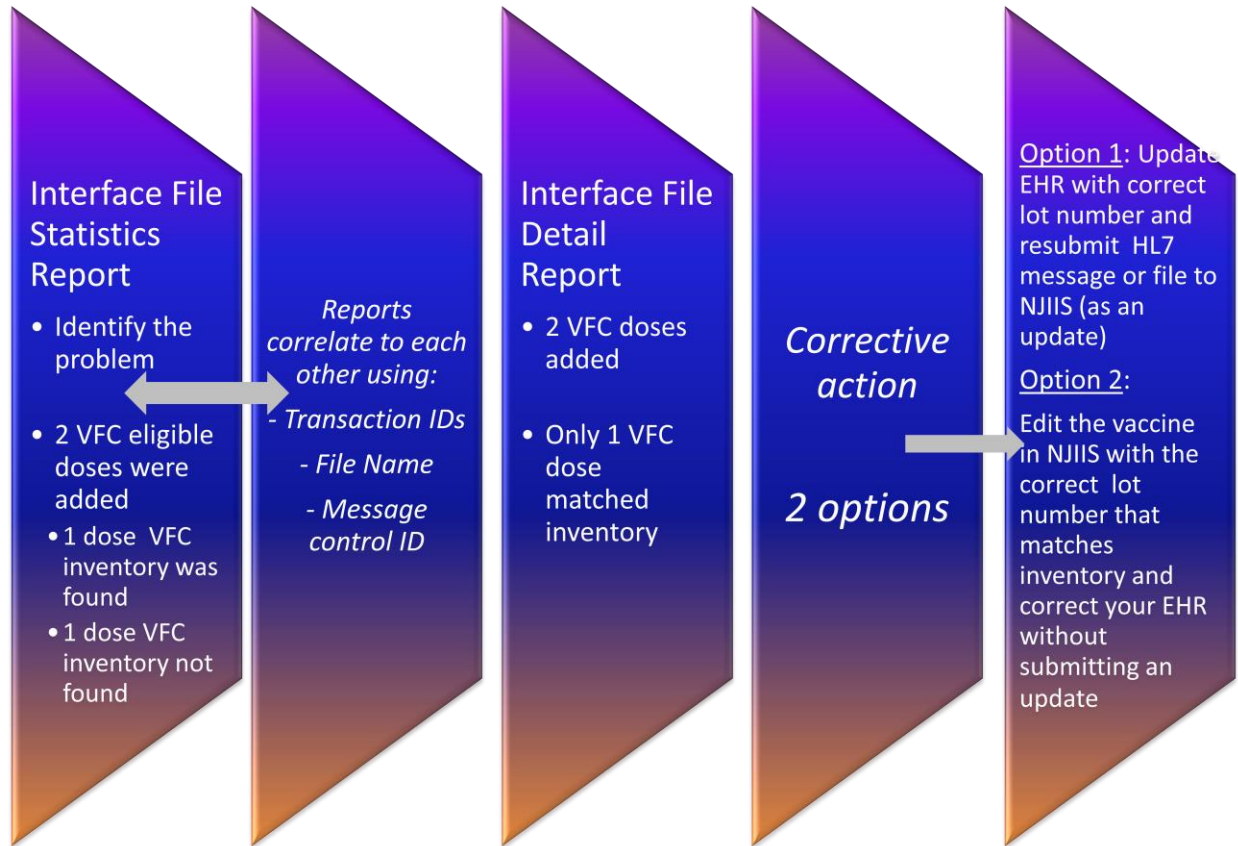
1. Search and identify the correct Registry ID for the patient in NJIS.
2. Add the correct Registry ID and update the patient's demographic information in the provider's EHR.
3. The HL7 file or message should then be re-submitted via interface as an "Update" to NJIS.

Option #2:

1. Search and identify the correct Registry ID for the patient in NJIS.
2. Manually add the vaccine to the patient's immunization record in NJIS.
3. Update the patient's demographic information in the provider's EHR, so that future administered immunizations are recorded correctly in NJIS.

Scenario 3: VFC Dose Added but Inventory Not Deducted

Reason: An incorrect lot number was reported to NJIIS.



➤ **Identify the Problem:**

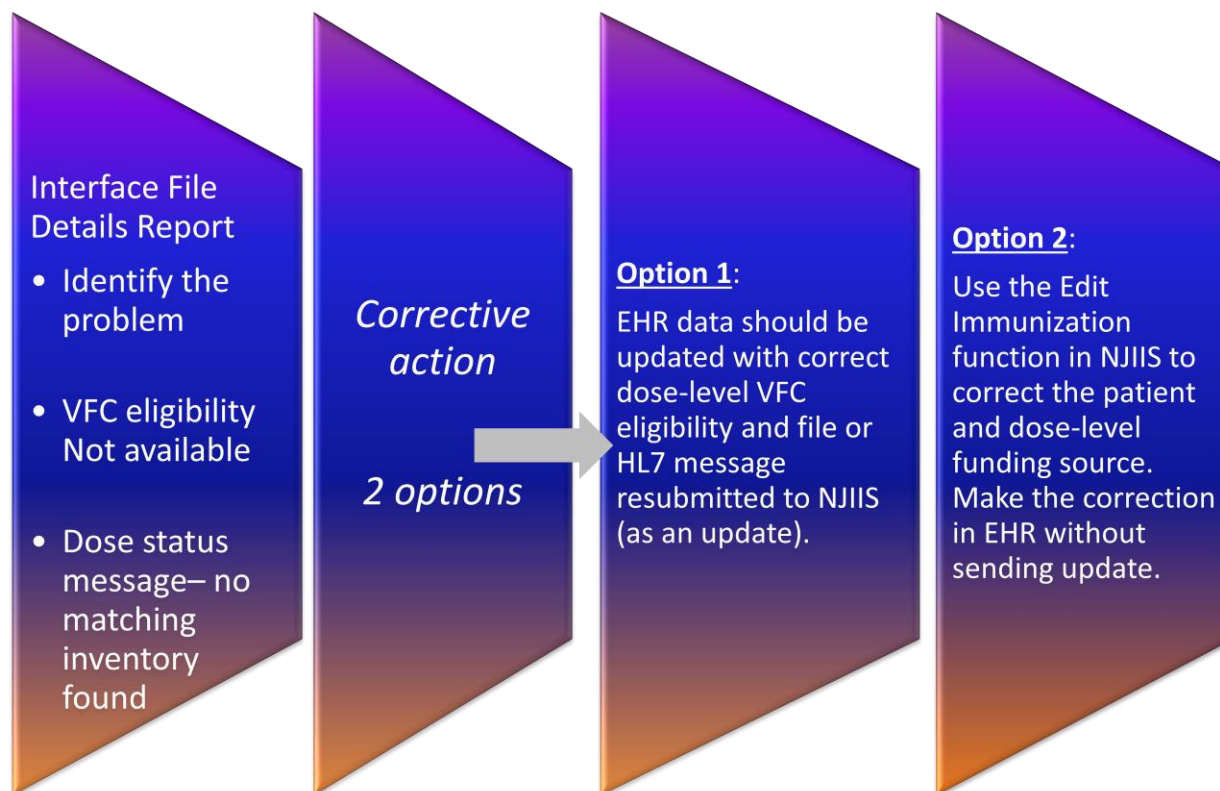
1. Review the **VFC Dose Statistics Report**.
 - a. *Column M* ("Total VFC Doses Submitted") indicates the total number of VFC doses that were reported in the file or message.
 - b. *Columns N, O, Q, S, T, and V* indicate the number of reported VFC doses that were not added/added, updated/not updated, and deleted/not deleted, respectively.
 - c. *Columns P, R, and U* ("VFC Doses Match Inventory") indicate the number of VFC doses that were added, updated, or deleted with matched inventory.
 - d. To get more detailed information about this patient, please note the File Name/Message ID in *column B* and transaction ID for the message in *column C*.
2. Review the **Interface File Details Report**.
 - a. From the Interface File Statistics Report, identify the patient by noting the corresponding Transaction ID in *column B* or Message ID in *column C* found on the VFC Dose Statistics Report.
 - b. *Column Q* ("Matched Inventory") indicates whether a dose matched inventory in NJIS. Furthermore, *Column U* ("Dose Comments") indicates that while the dose was successfully added ("Execution completed successfully"), it did NOT match inventory ("No matching inventory found").

➤ **Identify Corrective Action(s):**

1. **Option 1:** EHR data should be updated with correct lot number information, and the HL7 file or message should be re-submitted via interface as an "Update" to NJIS.
2. **Option 2:** Use the "Edit Immunization" function in NJIS to correct the lot number to match inventory:
 - a. Log into NJIS.
 - b. Search for the patient by entering the patient's *Registry ID*.
 - c. On the patient's immunization record, select the *Immunizations* tab.
 - d. Select the radio button next to the immunization that needs to be edited, and click on the *Edit* button.
 - e. Select the correct lot number from the drop down menu, and click on the *Save* button.

Scenario 4: VFC Dose Added but Inventory Not Deducted

Reason: VFC eligibility status was incorrectly reported to NJIIS.



➤ **Identify the Problem:**

1. Review the **Interface File Details Report**.

- a. In *column S* ("VFC Eligibility"), the dose-level VFC eligibility is reported as "Not Eligible".
- b. *Column Q* ("Matched Inventory") indicates whether a dose matched inventory in NJIIS. Furthermore, *Column U* ("Dose Comments") indicates that while the dose was successfully added ("Execution completed successfully"), it did NOT match inventory ("No matching inventory found").

➤ **Identify Corrective Action(s):**

1. Option 1: EHR data should be updated with the correct VFC eligibility status, and the HL7 file or message should be re-submitted via interface as an "Update" to NJIIS.
2. Option 2: Use the "Edit Immunization" function in NJIIS to correct the VFC eligibility status to match inventory:
 - a. Log into NJIIS.
 - b. Search for the patient by entering the patient's *Registry ID*.
 - c. On the patient's immunization record, select the *Immunizations* tab.
 - d. Select the radio button next to the immunization that needs to be edited, and click on the *Edit* button.
 - e. Select the correct Funding Source from the drop down menu, and click on the *Save* button.